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CASE STUDY

**MAKE
TIME
COUNT™**

MARKET: INDUSTRIAL

CONTINENTAL WE, USA

Manufacturing facilities & offices, 2021

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01_Challenges

With a 35,000sqft manufacturing plant featuring a large production line area as well as offices spaces, our client was seeking a timing solution to address the need, on the one hand, to more accurately time fabrication processes while minimizing machine downtime and on the other to implement a facility wide solution to serve as a reliable time baseline for all employees. Key goals consisted of acquiring time data for LEAN processes as well as enhance employee punctuality, optimize breaks and improve productivity off the floor.

Furthermore, clear budgets and deadlines were submitted by the client and BigTimeClocks® was tasked with developing specifications and delivering a solution in under 5 weeks.

02_Solutions

BigTimeClocks® sales and engineering teams analyzed all operations requirements and constraints and provided a global solution consisting of both standard off-the-shelf products and custom solutions.

To accurately monitor processes, custom clocks (model 464CC) were designed to initiate count up functions upon receiving an incoming voltage from production line machines. Contact closures were designed into the PCBs and the 6" ultra-bright LED numerals provided a highly legible display to gauge production efficiency.

All offices, closed and open plan, were equipped with 4" numerals / 4 digits wifi clocks (models 544) with a viewing range of up to 120 feet. This new generation of BigTimeClocks® wifi clocks provides "atomic" and synchronized time across all units while eliminating the risk of time deviation.



> BigTimeClocks® XL-46R-100 used in all board rooms



Project key Facts

- ✓ 12 wifi clocks model 544-wifi
- ✓ 4 models 464_CC: custom clocks
- ✓ 4 models XL-46R-100 in board rooms
- ✓ Installation time: 4 hours/ 2 operators
- ✓ ROI: Under 2 weeks

03_Key benefits

BigTimeClocks® offered a fully automated and self-maintained system that eliminated the need for managers interventions once installed.

Models 464_CC custom clocks are programmed to count up when the production line machines are not active and display aggregate downtime at the end of a given shift.

Stock item model 544 wifi clocks, synchronizing atomic time with a public time server and installed across the facility deliver consistent and reliable time that also matches and connected devices such as mobile phones, laptops and tablets.

As a result employee punctuality and productivity were significantly

improved.

Models XL-46R-100 were installed in board rooms to closely monitor presenters allocated time frames and display any overtime using BigTimeClocks® exclusive negative timing feature (where digits blink and count up after a countdown has been performed).

BigTimeClocks® was involved throughout all project phases: establishing specifications, project managing custom clocks development, meeting installation schedules and providing installation and post-installation customer support which ultimately led to a highly successful project.

+ Added product value

- ✓ *Fast installation*
- ✓ *Easy to operate*
- ✓ *Robust, reliable & accurate*
- ✓ *Ultra bright highly legible LEDs*
- ✓ *1 year warranty*



% Productivity



% Punctuality



Weeks ROI

“The ideal timing solution in LEAN processes”

As a large manufacturing plant engaged in LEAN processes which consist of indentifying a production method that minimizes waste and downtime without sacrificing productivity, our team was keen on developping a time management tool that would synchronize with our production line machines and would display downtime data.

To that effect, BigTimeClocks® engineered a timing solution (model 464) featuring a count up function triggered by an incoming 24V signal sent from our production line machine. Quantifying production downtime has allowed our teams to optimize processes and ultimately increase productivity with a ROI in under 2 weeks!

Off the production floor, the need for accurate / atomic synchronzied time solutions in all open plan and closed plan offices was key to ensure improved team coordination for meetings, breaks and general admintrative tasks. Our division upgraded from our former analog clocks to the new BigTimeClocks® model 544-wifi (4” numerals/ 4 digits/ wifi enabled) which was simple to install and easily connected to our network server via wifi. The ideal retrofit solution!

Upgrading to BigTimeClocks® digital timers has positively impacted our business, establishing record high productivity levels throughout our business units.

- Jennifer. B., Production Manager



BigTimeClocks® model 154





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